15 PA 400 C MB [2.0]

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15 PA 400 C [2.0] is a newly refined 15-inch mid-bass loudspeaker engineered to deliver punchy, well-defined bass and a smooth upper-midrange response. With upgraded linearity and lower distortion than its predecessor, this 400W AES-rated driver integrates a robust 3-inch voice coil, a carefully optimized BL motor structure (Bl = 18.82 N/A), and a high-efficiency suspension system.

Precision testing with the KLIPPEL Analyzer System, this model features a reference efficiency of 3.34% and a characteristic sensitivity of 98 dB SPL, making it ideal for high-output professional sound reinforcement. The frequency response is clean and flat from 55 Hz to 4.5 kHz, making it a perfect fit for 2-way and 3-way PA systems, portable enclosures, and fixed installations.

Whether you're powering a DJ setup, an event stage, or an install system, the 15 PA 400 C MB [2.0] brings unmatched clarity, durability, and punch to your mid-bass section — all proudly made in India.

Recommended Enclosure

Type	Volume (Net)	Port Size (dia × length)	Tuning Frequency
Vented (Reflex)	75–85 litres	Ø100 mm 110 mm (single port)	55 Hz
Compact Reflex	60 litres	Ø100 mm 150 mm	60 Hz

Recommended HF Driver Pairing:

Parameter	Recommendation
Power Handling	50–80W AES
Exit Size	1" or 1.4" compression driver
Sensitivity	105–108 dB SPL
Diaphragm Type	Titanium or Polyester Film

Crossover Recommendation

Type	Frequency	Slope
Low Pass (LPF)	3.0 kHz	12 or 18 dB/oct
High Pass (HPF)	50–60 Hz	18 dB/oct (for safety)

Note: For 2-way systems, crossover at 2.8–3.2 kHz. For 3-way, use 250–300 Hz and 2.5 kHz.

Applications:

- 2-way PA cabinets
- 3-way professional audio systems
- DJ speakers
- Portable sound systems
- Stage monitors
- Installations in halls, auditoriums, temples

Why Choose 15 PA 400 C MB [2.0]?

- ☑ Improved X-max and motor linearity from earlier version
- ☑ Designed with Klippel large signal integrity testing
- ☑ Flat, usable response from 55 Hz to 4.5 kHz
- ☑ Indian-built, rugged and serviceable
- ☑ High reference efficiency and low distortion profile

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SPECIFICATIONS & PARAMETERS

Specifications

Nominal Diameter	390 mm
Nominal Impedance	8 Ω
Nominal Power Handling (AES)	400 W
Program Power	800 W
Sensitivity (1W/1m)	98 dB
Frequency Range	55-4500 Hz
Magnet Material	Ferrite
Voice Coil Diameter	76.2 mm (3 in)
Winding Material	COPPER
Former Material	GLASS FIBRE
Winding Type	OUTSIDE

Mounting Info

Overall Diameter	390 mm
Bolt Circle Diameter	375 mm
Baffle Cutout Diameter	356 mm
Depth	164 mm
Flange and Gasket Thickness	12 mm
Gross Weight	10.25 Kgs

Parameters

Resonant Frequency	Fs	52 Hz
DC Resistance	Re	5.2 Ω
Electrical Q	Qes	0.46
Mechanical Q	Qms	11.52
Total Q	Qts	0.44
Compliance Equivalent Volume	Vas	112.79 Ltrs
Peak Diaphragm Displacement Volume	Vd	0.80 Ltrs
Effective Surface Area of Cone	Sd	907.92 cm^2
Reference Efficiency	ηo	3.34%
Moving Mass including air load	Mms	95.60 gms
Motor Strength	Bl	18.82 T-m
Voice Coil Inductance	Le	0.52 mH
Efficiency Bandwith Product	EBP	113 Hz
Voice Coil Overhang	Xmax	±4.40 mm

Recone Kit

Recone Kit Number	REC15PA400C [2.0]

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